RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/706,877_

Source: _IFWD_

Date Processed by STIC: _10-07-2005_

ENTERED

IFWO

RAW SEQUENCE LISTING   DATE: 10/07/2005
PATENT APPLICATION: **US/10/706,877** TIME: 11:11:12

Input Set : **N:\Crf3\RULE60\10706877.raw.txt**
Output Set: **N:\CRF4\10062005\J706877.raw**

SEQUENCE LISTING

1	(1)	GENERAL INFORMATION:
2		(i) APPLICANT: Fenteany, Gabriel
3		Jamison, Timothy F.
4		Schreiber, Stuart
5		Standaert, Robert F.
6		(ii) TITLE OF INVENTION: LACTACYSTIN ANALOGS
7		(iii) NUMBER OF SEQUENCES: 17
8		(iv) CORRESPONDENCE ADDRESS:
9		(A) ADDRESSEE: Fish & Richardson P.C.
10		(B) STREET: 225 Franklin Street
11		(C) CITY: Boston
12		(D) STATE: MA
13		(E) COUNTRY: USA
14		(F) ZIP: 02110-2804
15		(v) COMPUTER READABLE FORM:
16		(A) MEDIUM TYPE: Floppy disk
17		(B) COMPUTER: IBM PC compatible
18		(C) OPERATING SYSTEM: PC-DOS/MS-DOS
19		(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
20		(vi) CURRENT APPLICATION DATA:
C--> 21		**(A) APPLICATION NUMBER: US/10/706,877**
C--> 22		**(B) FILING DATE: 12-Nov-2003**
23		(vii) PRIOR APPLICATION DATA:
W--> 24		**(A) APPLICATION NUMBER: US/09/924,993**
25		(B) FILING DATE: 08-Aug-2001
W--> 26		**(A) APPLICATION NUMBER: US/08/466,468**
27		(B) FILING DATE: 06-JUN-1995
W--> 28		**(A) APPLICATION NUMBER: US 08/421,583**
29		(B) FILING DATE: 12-APR-1995
30		(viii) ATTORNEY/AGENT INFORMATION:
31		(A) NAME: Freeman, John W.
32		(B) REGISTRATION NUMBER: 29,066
33		(C) REFERENCE/DOCKET NUMBER: 00246/197002
34		(ix) TELECOMMUNICATION INFORMATION:
35		(A) TELEPHONE: 617/542-5070
36		(B) TELEFAX: 617/542-8906
37		(C) TELEX: 200154
38	(2)	INFORMATION FOR SEQ ID NO: 1:
39		(i) SEQUENCE CHARACTERISTICS:
40		(A) LENGTH: 15 amino acids
41		(B) TYPE: amino acid
42		(C) STRANDEDNESS: Not Relevant

RAW SEQUENCE LISTING   DATE: 10/07/2005
PATENT APPLICATION: US/10/706,877   TIME: 11:11:12

Input Set : N:\Crf3\RULE60\10706877.raw.txt
Output Set: N:\CRF4\10062005\J706877.raw

```
43              (D) TOPOLOGY: linear
44         (ii) MOLECULE TYPE: protein
45         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
46         Thr Thr Thr Leu Ala Phe Lys Phe Arg His Gly Gly Ile Ile Ala
47         1               5                   10                  15
49  (2) INFORMATION FOR SEQ ID NO: 2:
50         (i) SEQUENCE CHARACTERISTICS:
51              (A) LENGTH: 15 amino acids
52              (B) TYPE: amino acid
53              (C) STRANDEDNESS: Not Relevant
54              (D) TOPOLOGY: linear
55         (ii) MOLECULE TYPE: protein
56         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
57         Thr Thr Thr Leu Ala Phe Lys Phe Arg His Gly Val Ile Val Ala
58         1               5                   10                  15
60  (2) INFORMATION FOR SEQ ID NO: 3:
61         (i) SEQUENCE CHARACTERISTICS:
62              (A) LENGTH: 15 amino acids
63              (B) TYPE: amino acid
64              (C) STRANDEDNESS: Not Relevant
65              (D) TOPOLOGY: linear
66         (ii) MOLECULE TYPE: protein
67         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
68         Thr Thr Thr Leu Ala Phe Lys Phe Gln His Gly Val Ile Ala Ala
69         1               5                   10                  15
71  (2) INFORMATION FOR SEQ ID NO: 4:
72         (i) SEQUENCE CHARACTERISTICS:
73              (A) LENGTH: 15 amino acids
74              (B) TYPE: amino acid
75              (C) STRANDEDNESS: Not Relevant
76              (D) TOPOLOGY: linear
77         (ii) MOLECULE TYPE: protein
78         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
79         Thr Thr Thr Leu Ala Phe Arg Phe Gln Gly Gly Ile Ile Val Ala
80         1               5                   10                  15
82  (2) INFORMATION FOR SEQ ID NO: 5:
83         (i) SEQUENCE CHARACTERISTICS:
84              (A) LENGTH: 15 amino acids
85              (B) TYPE: amino acid
86              (C) STRANDEDNESS: Not Relevant
87              (D) TOPOLOGY: linear
88         (ii) MOLECULE TYPE: protein
89         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
90         Thr Thr Thr Val Gly Ile Thr Leu Lys Asp Ala Val Ile Met Ala
91         1               5                   10                  15
93  (2) INFORMATION FOR SEQ ID NO: 6:
94         (i) SEQUENCE CHARACTERISTICS:
95              (A) LENGTH: 11 amino acids
96              (B) TYPE: amino acid
```

```
97           (C) STRANDEDNESS: Not Relevant
98           (D) TOPOLOGY: linear
99      (ii) MOLECULE TYPE: protein
100     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
101      Asp Ala Tyr Ser Gly Gly Ser Val Ser Leu Tyr
102       1              5                 10
104 (2) INFORMATION FOR SEQ ID NO: 7:
105      (i) SEQUENCE CHARACTERISTICS:
106           (A) LENGTH: 14 amino acids
107           (B) TYPE: amino acid
108           (C) STRANDEDNESS: Not Relevant
109           (D) TOPOLOGY: linear
110     (ii) MOLECULE TYPE: protein
111     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
112      Asp Ala Tyr Ser Gly Gly Ala Val Asn Leu Tyr His Val Arg
113       1              5                 10
115 (2) INFORMATION FOR SEQ ID NO: 8:
116      (i) SEQUENCE CHARACTERISTICS:
117           (A) LENGTH: 14 amino acids
118           (B) TYPE: amino acid
119           (C) STRANDEDNESS: Not Relevant
120           (D) TOPOLOGY: linear
121     (ii) MOLECULE TYPE: protein
122     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
123      Asp Ser Tyr Ser Gly Gly Val Val Asn Met Tyr His Met Lys
124       1              5                 10
126 (2) INFORMATION FOR SEQ ID NO: 9:
127      (i) SEQUENCE CHARACTERISTICS:
128           (A) LENGTH: 21 amino acids
129           (B) TYPE: amino acid
130           (C) STRANDEDNESS: Not Relevant
131           (D) TOPOLOGY: linear
132     (ii) MOLECULE TYPE: protein
133     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
134      Val Ile Glu Ile Asn Pro Tyr Leu Leu Gly Thr Met Ala Gly Gly Ala
135       1              5                 10                15
136      Ala Asp Cys Ser Phe
137                 20
139 (2) INFORMATION FOR SEQ ID NO: 10:
140      (i) SEQUENCE CHARACTERISTICS:
141           (A) LENGTH: 24 amino acids
142           (B) TYPE: amino acid
143           (C) STRANDEDNESS: Not Relevant
144           (D) TOPOLOGY: linear
145     (ii) MOLECULE TYPE: protein
146     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
147      Val Ile Glu Ile Asn Pro Tyr Leu Leu Gly Thr Leu Ala Gly Gly Ala
148       1              5                 10                15
149      Ala Asp Cys Gln Phe Trp Glu Arg
```

```
150                  20
152 (2) INFORMATION FOR SEQ ID NO: 11:
153      (i) SEQUENCE CHARACTERISTICS:
154           (A) LENGTH: 25 amino acids
155           (B) TYPE: amino acid
156           (C) STRANDEDNESS: Not Relevant
157           (D) TOPOLOGY: linear
158      (ii) MOLECULE TYPE: protein
159      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
160      Val Ile Glu Ile Asn Pro Pro Tyr Leu Leu Gly Thr Met Ser Gly Cys
161      1               5                   10                  15
162      Ala Ala Asp Cys Gln Tyr Trp Glu Arg
163                  20                  25
165 (2) INFORMATION FOR SEQ ID NO: 12:
166      (i) SEQUENCE CHARACTERISTICS:
167           (A) LENGTH: 16 amino acids
168           (B) TYPE: amino acid
169           (C) STRANDEDNESS: Not Relevant
170           (D) TOPOLOGY: linear
171      (ii) MOLECULE TYPE: protein
172      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
173      Gly Tyr Ser Tyr Asp Leu Glu Val Glu Glu Ala Tyr Asp Leu Ala Arg
174      1               5                   10                  15
176 (2) INFORMATION FOR SEQ ID NO: 13:
177      (i) SEQUENCE CHARACTERISTICS:
178           (A) LENGTH: 15 amino acids
179           (B) TYPE: amino acid
180           (C) STRANDEDNESS: Not Relevant
181           (D) TOPOLOGY: linear
182      (ii) MOLECULE TYPE: protein
183      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
184      Gly Tyr Ser Asp Leu Glu Val Glu Gln Ala Tyr Asp Leu Ala Arg
185      1               5                   10                  15
187 (2) INFORMATION FOR SEQ ID NO: 14:
188      (i) SEQUENCE CHARACTERISTICS:
189           (A) LENGTH: 16 amino acids
190           (B) TYPE: amino acid
191           (C) STRANDEDNESS: Not Relevant
192           (D) TOPOLOGY: linear
193      (ii) MOLECULE TYPE: protein
194      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
195      Gly Tyr Arg Pro Asn Leu Ser Pro Glu Glu Ala Tyr Asp Leu Gly Arg
196      1               5                   10                  15
198 (2) INFORMATION FOR SEQ ID NO: 15:
199      (i) SEQUENCE CHARACTERISTICS:
200           (A) LENGTH: 19 amino acids
201           (B) TYPE: amino acid
202           (C) STRANDEDNESS: Not Relevant
203           (D) TOPOLOGY: linear
```

```
      204      (ii) MOLECULE TYPE: protein
      205      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
      206       Thr Thr Ile Ala Gly Val Val Tyr Lys Asp Gly Ile Val Leu Gly Ala
      207       1               5                   10                  15
      208       Asp Thr Arg
      210 (2) INFORMATION FOR SEQ ID NO: 16:
      211      (i) SEQUENCE CHARACTERISTICS:
      212              (A) LENGTH: 19 amino acids
      213              (B) TYPE: amino acid
      214              (C) STRANDEDNESS: Not Relevant
      215              (D) TOPOLOGY: linear
      216      (ii) MOLECULE TYPE: protein
      217      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
W--> 218       Xaa Xaa Ile Ala Gly Val Val Tyr Lys Asp Gly Ile Val Leu Gly Ala
      219       1               5                   10                  15
      220       Asp Thr Arg
      222 (2) INFORMATION FOR SEQ ID NO: 17:
      223      (i) SEQUENCE CHARACTERISTICS:
      224              (A) LENGTH: 9 amino acids
      225              (B) TYPE: amino acid
      226              (C) STRANDEDNESS: Not Relevant
      227              (D) TOPOLOGY: linear
      228      (ii) MOLECULE TYPE: protein
      229      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
      230       Thr Thr Ile Ala Gly Val Val Tyr Lys
      231       1               5
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/07/2005
PATENT APPLICATION: US/10/706,877   TIME: 11:11:13

Input Set : N:\Crf3\RULE60\10706877.raw.txt
Output Set: N:\CRF4\10062005\J706877.raw

Please Note:
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:16; Xaa Pos.1,2

VERIFICATION SUMMARY   DATE: 10/07/2005
PATENT APPLICATION: US/10/706,877   TIME: 11:11:13

Input Set : N:\Crf3\RULE60\10706877.raw.txt
Output Set: N:\CRF4\10062005\J706877.raw

L:21 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:22 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:26 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)
L:28 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0